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Dated: 1 - 27-06 Signature: Mausa A. Gallagher) (Maura A. Gallagher)

Docket No.: BBNT-P01-015 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Pearson et al.

Application No.: 10/799177

Confirmation No.: 8150

11011110.. 6130

Filed: March 12, 2004

Art Unit: 2661

For:

SYSTEMS AND METHODS FOR

IMPLEMENTING ROUTING PROTOCOLS

AND ALGORITHMS FOR QUANTUM

AND ALGORITHMS FOR QUANTUM CRYPTOGRAPHIC KEY TRANSPORT

Examiner: Not Yet Assigned

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Supplemental Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

Application No.: 10/799177 Docket No.: BBNT-P01-015

The following co-owned pending patent applications may include subject matter similar to that disclosed in this application. One or more office actions may have issued in these cases.

Application No.	<u>Title</u>	<u>Filed</u>	Docket No.
09/611783	Systems And Methods For Implementing A Quantum-Cryptographic Communications Network	July 7, 2000	BBNT-P01-009
09/943709	Systems And Methods For Path Set-Up In A Quantum Key Distribution Network	August 31, 2001	BBNT-P01-139
09/944328	Quantum Cryptographic Key Distribution Networks With Untrusted Switches	August 31, 2001	BBNT-P01-134
10/197659	Key Distribution Center For Quantum Cryptographic Key Distribution Networks	July 17, 2002	BBNT-P01-164
10/218652	Methods And Systems For Distributing A Group Key In A Quantum Cryptographic Key Distribution Network	August 14, 2002	BBNT-P02-164
10/271103	10/271103 Systems And Methods For Framing Quantum Cryptographic Links		BBNT-P01-231
10/271150			BBNT-P01-188
10/289192	Systems And Methods For Implementing A Unified Framework For Quantum Crypographic Protocols	November 6, 2002	BBNT-P01-189
10/325325	Systems And Methods For Implementing Adaptive Quantum Cryptography	December 18, 2002	BBNT-P01-219
10/324040	Key Transport In Quantum Cryptographic Networks	December 20, 2002	BBNT-P01-210
10/324355	Systems And Methods For Managing Quantum Cryptographic Networks	December 20, 2002	BBNT-P01-218
10/384502	Autoconfiguration Via Quantum Cryptographic Link Framing	March 7, 2003	BBNT-P01-209
10/394974	Systems And Methods For Implementing A Sifting Protocol For Quantum	March 21, 2003	BBNT-P02-189

Application No.: 10/799177 Docket No.: BBNT-P01-015

Application No.	<u>Title</u>	<u>Filed</u>	Docket No.
	Cryptograpy		
10/402120	Quantum Cryptography Via Phase-Entangled Encoding	March 28, 2003	BBNT-P01-229
10/434248	Quantum Cipher Key Distribution Via Phase- Entangled Encoding Of Key Symbols	May 7, 2003	BBNT-P01-230
10/462292	Automatic Control Of Quantum Key Distribution	June 16, 2003	BBNT-P01-240
10/462400	Quantum Cryptography Based On Phase Entangled Photons	June 16, 2003	BBNT-P01-241
10/716078	Systems And Methods For Implementing Path Length Control For Quantum Cryptographic Systems	November 18, 2003	BBNT-P02-097
10/716747	10/716747 Systems And Methods For Implementing Training Frames For Quantum Cryptographic Links		BBNT-P02-231
10/786314	Systems And Methods For Reserving Cryptographic Key Material	February 26, 2004	BBNT-P01-265
10/795313	Quantum Cryptography With Multiparty Randomness	March 9,. 2004	BBNT-P01-268
10/795398	Simple Untrusted Network For Quantum Cryptography	March 9, 2004	BBNT-P01-259
10/797140	Systems And Methods For Implementing Adaptive Training For Quantum Cryptography	March 11, 2004	BBNT-P03-231
10/800481	Systems And Methods For Implementing An Error Detection And Correction Protocol For Quantum Cryptography	March 15, 2004	BBNT-P02-021
10/803509	Systems And Methods For Quantum Cryptographic Key Transport	March 18, 2004	BBNT-P01-258

In accordance with 37 CFR 1.97(g), the filing of this Supplemental Information

Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to be an

Application No.: 10/799177 Docket No.: BBNT-P01-015

admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Supplemental Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. BBNT-P01-015.

Dated: January 27, 2006

Respectfully submitted,

Edward A. Gordon

Registration No.: 54,130 ROPES & GRAY LLP

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Attorneys/Agents For Applicant



PTO/SB/08a/b (08-03)
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449A/B/PTO Application Number 10/799,177 INFORMATION DISCLOSURE Filing Date March 12, 2004 STATEMENT BY APPLICANT First Named Inventor David Spencer Pearson Art Unit 2666 (Use as many sheets as necessary) Examiner Name S. S. Rao 3 BBNT-P01-015 Sheet 1 of Attomey Docket Number

	U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
	AA*	US-4,445,116	04-24-1984	Grow				
	AB*	US-5,307,410	04-26-1994	Bennett				
	AC*	US-5,469,432	11-21-1995	Gat				
	AD*	US-5,764,767	06-09-1998	Beimel et al.				
	AE*	US-5,911,018	06-08-1999	Bischel et al.				
	AF*	US-5,960,131	09-28-1999	Fouquet et al.				
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	AH*	US-6,005,993	12-21-1999	MacDonald				
	AI*	US-6,028,935	02-22-2000	Rarity et al.				
	AJ*	US-6,097,696-A	08/2000	Doverspike, Robert D.				
	AK*	US-6,130,780	10-10-2000	Joannopoulos et al.				
	AL*	US-6,154,586	11-28-2000	MacDonald et al.				
	AM*	US-6,507,012-B1	01/2003	Medard et al				
	AN*	US-6,678,379-B1	01/2004	Mayers et al				
	AO*	US-5,311,572	05/1994	Friedes et al.				
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	AS*	US-6,538,990	11/2003	Mahalingaiah et al.				
	AT*	US-6,560,707	05/2003	Curtis et al.				
	AU*	US-6,654,346	11/2003	Mahalingaiah et al.				
	AV*	US-6,754,214	06/2004	Mahalingaiah				
	AW*	US-6,836,463	12/2004	Garcia-Luna Aceves et al.				

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Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
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	NON PATENT LITERATURE DOCUMENTS					
Initials No.1 magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, and/or country where published.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
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	CC	Basak, D., et al., "Multi-protocol Lambda Switching: Issues in Combining MPLS Traffic Engineering Control With Optical Cross-connects," Internet draft (August 2000).				

Examiner	Date	
Signature	Considered	

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Sub	estitute for form 1449A/B/PT	0		Complete if Known		
				Application Number	10/799,177	
II.	IFORMATION	I DI	SCLOSURE	Filing Date	March 12, 2004	
S	TATEMENT B	3Y /	APPLICANT	First Named Inventor	David Spencer Pearson	
				Art Unit	2666	
(Use as many sheets as necessary)		Examiner Name	S. S. Rao			
Sheet	2	of	3	Attomey Docket Number	BBNT-P01-015	

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CG	Bethune, D.S., et al., "An Autocompensating Fiber-Optic Quantum Cryptography System Based on Polarization Splitting of Light," IEEE Journal of Quantum Electronics, XX(Y):100-108 (1999).
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CI	Brassard, G., et al., "Secret-Key Reconciliation by Public Discussion," Department IRO, Universite de Montreal, 14 pages (1994).
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CN	Elliott, B.B., et al., "Path-length control in a interferometric QKD link," Proc. of SPIE, Vol. #5101, 11 pages (April 21, 2003).
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СР	Gisin, N., et al., "Quantum cryptography and long distance Bell experiments: How to control decoherence," Geneva, Switzerland, pages 1-7 and 4 pages of drawings (January 15, 1999).
CQ	Gisin, N., et al., "Quantum cryptography," Reviews of Modern Physics, 74:145-184 (2002).
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Su	bstitute for form 1449A/B/P	то	_	Complete if Known		
``		. •		Application Number	10/799,177	
	NFORMATIO	N DI	SCLOSURE	Filing Date	March 12, 2004	
8	TATEMENT	BY A	APPLICANT	First Named Inventor	David Spencer Pearson	
				Art Unit	2666	
	(Use as many sh	neets as	necessary)	Examiner Name	S. S. Rao	
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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Signature	Considered	